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Sep. 12, 2002(54) **STEROID SULPHATASE INHIBITORS**

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NEW YORK, NY 10151 (US)****Publication Classification**(51) Int. Cl.⁷ **A61K 31/56; C07J 1/00**(52) U.S. Cl. **514/178; 552/626**(21) Appl. No.: **10/084,235**

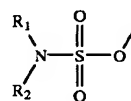
(57)

ABSTRACT(22) Filed: **Feb. 25, 2002****Related U.S. Application Data**

(60) Division of application No. 09/579,163, filed on May 25, 2000, which is a division of application No. 09/238,345, filed on Jan. 27, 1999, now Pat. No. 6,187,766, which is a division of application No. 09/111,927, filed on Jul. 8, 1998, now Pat. No. 6,011,024, which is a continuation-in-part of application No. 08/458,352, filed on Jun. 2, 1995, now Pat. No. 5,830,886, which is a division of application No. 08/196,192, filed on Dec. 27, 1994, now Pat. No. 5,616,574, filed as 371 of international application No. PCT/GB92/01587, filed on Aug. 28, 1992 said application application number is a continuation-in-part of application No. PCT/GB97/00600, filed on Mar. 4, 1997, and which is a continuation-in-part of application No. PCT/GB97/004444, filed on Feb. 17, 1997, and which is a continuation-in-part of application No. PCT/GB97/03352, filed on Dec. 4, 1997.

A method of inhibiting steroid sulphatase activity in a subject in need of same is described.

The method comprises administering to said subject a steroid sulphatase inhibiting amount of a ring system compound; which ring system compound comprises a ring to which is attached a sulphamate group of the formula

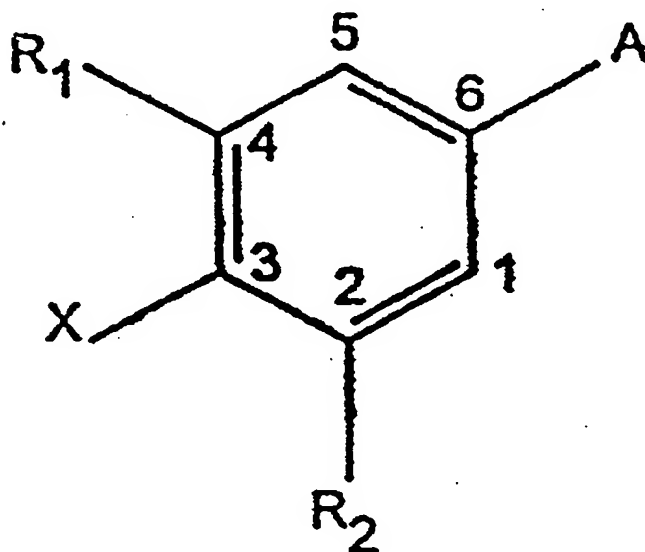


wherein each of R₁ and R₂ is independently selected from H, alkyl, alkenyl, cycloalkyl and aryl, or together represent alkylene optionally containing one or more hetero atoms or is groups in the alkylene chain; and wherein said compound is an inhibitor of an enzyme having steroid sulphatase activity (E.C.3.1.6.2); and if the sulphamate group of said compound is replaced with a sulphate group to form a sulphate compound and incubated with a steroid sulphatase enzyme (E.C.3.1.6.2) at a pH 7.4 and 37° C. it would provide a K_m value of less than 50 μM.

(30) **Foreign Application Priority Data**

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